



## PBS 系列功率电感 PBS Series SMD Power Inductors



### 特征 FEATURES

- 大电流
- High saturation current
- PBS 系列屏蔽结构
- PBS type with magnetic shielded
- 适合于表面贴装,适合于回流焊
- SMT type, suitable for solder reflow

### 应用 APPLICATIONS

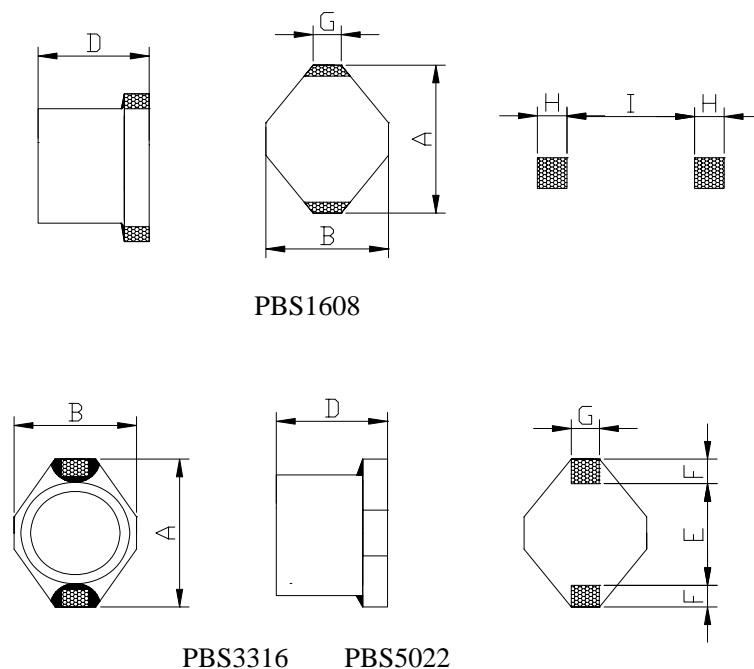
- 移动通信,笔记本电脑
- Portable communication equipment, Notebook Computer
- LCD 电视
- LCD television
- DC/DC 转换
- DC/DC converters

### 产品规格型号表示方法 ORDERING CODE

PBS	1608	—	150	M	T		
①	②		③	④	⑤		
① 产品代号 Code	② 规格尺寸 Dimensions (L×W×T) (mm)		③ 感量(μH) Inductance		④ 误差 Tolerance		⑤ 包装方式 Packaging Style
PBS	PBS 系列 功率电感	1608 6.40×4.10×2.60 3316 12.70×9.20×4.90 5022 18.10×14.10×6.80	1R0 1 100 10 101 100	M ±20% N ±30%	T Tape&Reel B Bulk		

### 外形尺寸 Dimensions

单位(Unit): mm



型号 Part	A	B	D	E	F	G	H	I	J
PBS1608	6.40±0.3	4.10±0.3	2.80±0.3	4.32	1.02	1.27	3.56	1.40	4.06
PBS3316	12.70±0.3	9.20±0.3	4.90±0.3	7.62	2.54	2.52	2.79	2.92	7.37
PBS5022	18.10±0.3	14.10±0.3	6.80±0.3	12.70	2.54	2.54	2.79	2.92	12.45



## 电性能参数 Electrical Characteristics

### PBS1608 Series

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance	Test Freq.	DCR ( $\Omega$ )Max	Isat (A)
PBS1608-1R0NT	1.0	$\pm 30\%$	100kHz	0.070	1.400
PBS1608-1R5NT	1.5	$\pm 30\%$	100kHz	0.085	0.930
PBS1608-2R2NT	2.2	$\pm 30\%$	100kHz	0.088	0.920
PBS1608-3R3NT	3.3	$\pm 30\%$	100kHz	0.102	0.750
PBS1608-4R7NT	4.7	$\pm 30\%$	100kHz	0.115	0.580
PBS1608-6R8NT	6.8	$\pm 30\%$	100kHz	0.125	0.580
PBS1608-8R2NT	8.2	$\pm 30\%$	100kHz	0.150	0.470
PBS1608-100MT	10	$\pm 20\%$	100kHz	0.150	0.370
PBS1608-150MT	15	$\pm 20\%$	100kHz	0.260	0.310
PBS1608-220MT	22	$\pm 20\%$	100kHz	0.320	0.300
PBS1608-330MT	33	$\pm 20\%$	100kHz	0.360	0.300
PBS1608-470MT	47	$\pm 20\%$	100kHz	0.450	0.240
PBS1608-680MT	68	$\pm 20\%$	100kHz	1.000	0.170
PBS1608-101MT	100	$\pm 20\%$	100kHz	1.200	0.130
PBS1608-151MT	150	$\pm 20\%$	100kHz	1.500	0.100
PBS1608-221MT	220	$\pm 20\%$	100kHz	2.000	0.100
PBS1608-331MT	330	$\pm 20\%$	100kHz	2.500	0.070
PBS1608-471MT	470	$\pm 20\%$	100kHz	3.500	0.060
PBS1608-681MT	680	$\pm 20\%$	100kHz	8.000	0.055
PBS1608-102MT	1000	$\pm 20\%$	100kHz	10.000	0.045
PBS1608-152MT	1500	$\pm 20\%$	100kHz	12.500	0.035
PBS1608-222MT	2200	$\pm 20\%$	100kHz	16.500	0.028
PBS1608-332MT	3300	$\pm 20\%$	100kHz	28.500	0.024
PBS1608-472MT	4700	$\pm 20\%$	100kHz	35.000	0.024
PBS1608-682MT	6800	$\pm 20\%$	100kHz	40.000	0.019
PBS1608-103MT	10000	$\pm 20\%$	100kHz	55.000	0.017

测试条件: 100kHz, 0.1Vrms.

Test Conditions: 100 kHz, 0.1Vrms.

Isat: 饱和电流, 加 Isat 时, 电感量下降 $\leq 30\%$

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

### PBS3316 Series

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance	Test Freq.	DCR ( $\Omega$ )Max	Isat (A)	Irms (A)
PBS3316-1R0NT	1.0	$\pm 30\%$	100kHz	0.021	5.60	5.00
PBS3316-1R5NT	1.5	$\pm 30\%$	100kHz	0.022	5.20	4.50
PBS3316-2R2NT	2.2	$\pm 30\%$	100kHz	0.032	5.00	3.80
PBS3316-3R3NT	3.3	$\pm 30\%$	100kHz	0.039	3.90	3.30
PBS3316-4R7NT	4.7	$\pm 30\%$	100kHz	0.054	3.20	2.70



PBS3316-6R8NT	6.8	±30%	100kHz	0.075	2.80	2.20
PBS3316-100MT	10.0	±20%	100kHz	0.101	2.40	2.00
PBS3316-150MT	15.0	±20%	100kHz	0.150	2.00	1.50
PBS3316-220MT	22.0	±20%	100kHz	0.207	1.60	1.30
PBS3316-330MT	33.0	±20%	100kHz	0.334	1.40	1.10
PBS3316-470MT	47.0	±20%	100kHz	0.472	1.00	0.80
PBS3316-101MT	100	±20%	100kHz	0.490	0.70	0.50
PBS3316-182MT	1800	±20%	100kHz	8.100	0.14	0.12
PBS3316-222MT	2200	±20%	100kHz	12.600	0.13	0.11
PBS3316-332MT	3300	±20%	100kHz	16.300	0.11	0.09

测试条件: 100KHz 0.1Vrms.

Test Conditions: 100KHz, 0.1Vrms.

Isat: 饱和电流, 加 Isat 时, 电感量下降≤10%

Isat: Saturation Current, the current when the inductance becomes 10% lower than its initial value.

Irms: 温升电流, 加 Irms 时, 器件温度升高≤15℃

Irms: Temperature Rise Current, the current when temperature of coil increases up to 15℃.

## PBS5022 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	Isat (A)	Irms (A)
PBS5022-100MT	10	±20%	100kHz	0.040	8.00	3.90
PBS5022-150MT	15	±20%	100kHz	0.048	7.00	3.40
PBS5022-220MT	22	±20%	100kHz	0.059	6.00	3.10
PBS5022-330MT	33	±20%	100kHz	0.075	5.00	2.80
PBS5022-470MT	47	±20%	100kHz	0.097	4.00	2.40
PBS5022-680MT	68	±20%	100kHz	0.138	3.00	2.00
PBS5022-101MT	100	±20%	100kHz	0.207	2.40	1.70
PBS5022-151MT	150	±20%	100kHz	0.293	2.10	1.30
PBS5022-221MT	220	±20%	100kHz	0.470	1.90	1.10
PBS5022-331MT	330	±20%	100kHz	0.780	1.10	0.86
PBS5022-471MT	470	±20%	100kHz	1.080	1.10	0.73
PBS5022-681MT	680	±20%	100kHz	1.400	0.96	0.64
PBS5022-102MT	1000	±20%	100kHz	2.010	0.80	0.53

测试条件: 100KHz 0.1Vrms.

Test Conditions: 100KHz, 0.1Vrms.

Isat: 饱和电流, 加 Isat 时, 电感量下降≤10%

Isat: Saturation Current, the current when the inductance becomes 10% lower than its initial value.

Irms: 温升电流, 加 Irms 时, 器件温度升高≤40℃

Irms: Temperature Rise Current, the current when temperature of coil increases up to 40℃.